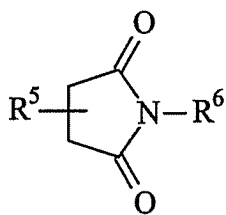


AMENDMENT TO CLAIMS

1. (Currently Amended) A method of preparing additives for lubricating materials on the basis of chemically modified nanosized particles of molybdenum trisulfide and/or derivatives thereof, characterized in that the nanosized particles of molybdenum trisulfide and/or derivatives thereof are prepared from salts of thiomolybdic acid of the general formula $M_2MoS_{4-x}O_x$, where M is NH_4 , Na, x is 0-3, in the presence of two modifiers, where tetraalkylammonium salts or mixtures of salts of the general formula $R^1R^2R^3R^4NX$ are used as the first modifier, wherein R^1 , R^2 , R^3 and R^4 are identical or different and are selected from the group consisting of C_1 - C_{16} alkyl, X is Cl, Br, while derivatives of succinimide of the general formula

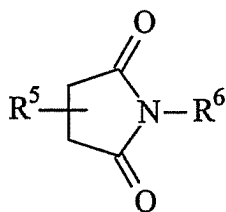


are used as the second modifier, wherein R^5 is normal or branched alkyl or oligoalkylene having a molecular weight of from 140 to about 1000, R^6 is selected from the group consisting of H, $-C(=O)NH_2$, $-(CH_2CN_2NH)_nCH_3$, n is 1 – 4,

wherein the process is carried out by thermally processing a homogenized in a non-aqueous polar solvent mixture of said salt of thiomolybdic acid and said first or second modifier at a temperature of 150-220°C, cooling the obtained mixture and subsequently adding said second or first modifier, respectively.

2. (Currently Amended) A method of preparing additives for lubricating materials on the basis of chemically modified nanosized particles of molybdenum trisulfide and/or derivatives thereof, characterized in that the nanosized particles of molybdenum trisulfide and/or derivatives thereof are prepared from salts of molybdic acid of the general formula M_2MoO_4 , where M is

NH₄, Na, and a sulfur donor, which is an inorganic sulfide or polysulfide of the general formula M'₂S_n wherein M' is NH₄, Na, n is 1 – 4, or thiourea, in the presence of two modifiers, where tetraalkylammonium salts or mixtures of salts of the general formula R¹R²R³R⁴NX are used as the first modifier, wherein R¹, R², R³ and R⁴ are identical or different and are selected from the group consisting of C₁-C₁₆ alkyl, X is Cl, Br, while derivatives of succinimide of the general formula



are used as second modifier where R⁵ is normal or branched alkyl or oligoalkylene having a molecular weight of from 140 to about 1000, R⁶ is selected from the group consisting of H, -C(=O)NH₂, -(CH₂CN₂NH)_nCH₃, n is 1–4,

wherein the process is carried out by thermally processing a homogenized in a non-aqueous polar solvent mixture of said salt of molybdic acid, said sulfur donor which is an inorganic sulfide, polysulfide or thiourea, and said first and/or second modifier at a temperature of 150-220°C, cooling the obtained mixture and subsequently adding said second and/or first modifier, respectively.

3. (Currently Amended) The method according to claim 1, characterized in that the thermal processing is carried out at a ~~temperature of 150 to 220°C~~ for 1 – 2 hours.

4. (Previously Presented) The method according to claim 1, characterized in that methanol, ethanol, propanol, isopropanol, n-butanol, isobutanol, 2-butanol, acetone or benzene is used as the solvent.

5. (Currently Amended) The method according to claim 2, characterized in that the thermal processing is carried out at a temperature of ~~150 to 220°C~~ for 1 – 2 hours.

6. (Previously Presented) The method according to claim 2, characterized in that methanol, ethanol, propanol, isopropanol, n-butanol, isobutanol, 2-butanol, acetone or benzene is used as the solvent.